

AMENDMENTS TO THE CLAIMS

1. (currently amended) A double valve comprising:

first and second unitary valve assemblies each having a respective inlet port, a respective outlet port, a respective exhaust port, a respective first cross-mirror port, and a respective second cross-mirror port;

first and second pilot assemblies coupled to said first and second unitary valve assemblies, respectively;

a first plate coupled to said first and second unitary valve assemblies including respective passages to provide a common inlet port coupled to said respective inlet ports of said first and second unitary valve assemblies, and a common outlet port coupled to said respective outlet ports of said first and second unitary valve assemblies, ~~and a common exhaust port coupled to said respective exhaust ports of said first and second unitary valve assemblies~~;

a second plate coupled to said first and second unitary valve assemblies including respective passages to provide providing a first cross-connection between said first cross-mirror port of said first unitary valve body and said second cross-mirror port of said second unitary valve body, and providing a second cross-connection between said second cross-mirror port of said first unitary valve body and said first cross-mirror port of said second unitary valve body, and a common exhaust port coupled to said respective exhaust ports of said first and second unitary valve assemblies.

2. (original) The double valve of claim 1 wherein said second plate further provides first and second pressure monitoring passages coupled to said first and second cross-connections, respectively.

3. (original) The double valve of claim 2 further comprising first and second pressure switches coupled to said first and second pressure monitoring passages, respectively.

4. (original) The double valve of claim 3 further comprising first and second flow restrictors coupled between said first and second pressure switches and said first cross-connections of said first and second unitary valve assemblies, respectively.

5. (original) The double valve of claim 2 further comprising:
an AND-gate having input ports coupled to said first and second pressure monitoring passages, respectively, and having an output port which is pressurized when both of said input ports receive a pressure greater than or equal to a predetermined pressure; and
a pressure switch coupled to said output port of said AND-gate for indicating whether said output port is pressurized.

6. (original) The double valve of claim 1 further comprising:
first and second pilot passages supplying pressurized fluid from said first cross-mirror ports of said first and second unitary valve assemblies, respectively, to said first and second pilot assemblies, respectively.

7. (original) The double valve of claim 6 wherein said first and second pilot passages are comprised of first and second tubing pieces, respectively, wherein said double valve further comprises first and second pilot plates coupling said first and second pilot assemblies with said first and second unitary valve assemblies, respectively, and wherein said first and second tubing pieces are coupled between said second plate and said first and second pilot plates.

8. (original) The double valve of claim 1 wherein said first and second unitary valve assemblies are comprised of in-line valves.

9. (canceled)

10. (new) A double valve comprising:

first and second unitary valve assemblies each having a respective inlet port, a respective outlet port, a respective exhaust port, a respective first cross-mirror port, and a respective second cross-mirror port, wherein said first and second unitary valve assemblies are comprised of base-mounted valves having bases conforming to standard dimensions;

first and second pilot assemblies coupled to said first and second unitary valve assemblies, respectively; and

a plate coupled to said first and second unitary valve assemblies including a plurality of ports on a face adjacent said first and second unitary valve assemblies interconnected by respective passages within said plate to provide a common inlet port coupled to said respective inlet ports of said first and second unitary valve assemblies, a common outlet port coupled to said respective outlet ports of said first and second unitary valve assemblies, a common exhaust port coupled to said respective exhaust ports of said first and second unitary valve assemblies, a first cross-connection between said first cross-mirror port of said first unitary valve body and said second cross-mirror port of said second unitary valve body, and a second cross-connection between said second cross-mirror port of said first unitary valve body and said first cross-mirror port of said second unitary valve body.